

Amendment to the Claims

In the Claims:

Please amend Claim 1 as follows:

- 1. (Currently Amended) A system for obtaining at least one output signal corresponding to at least one image of an object-that is formed along an inclined focal plane passing through the object, wherein there is relative motion between the object and the system, comprising:
- (a) <u>a collection lens disposed so that light traveling from the object passes through</u> the collection lens and travels along a collection path, said collection lens substantially collimating light from the object;
- (b) an imaging lens disposed in the collection path to receive light that has passed through the collection lens, producing focused light that is directed along an imaging path; and
- output signal corresponding to at least one image of an object, said TDI detector disposed to receive light from the object along an imaging path, forming said at least one image of the object on a plane of the focused light directed along the imaging path, said TDI detector that is being inclined at an angle relative to the imaging path, so that the a plane of the TDI detector is not perpendicular to the imaging path, said angle determining an angle of the inclined focal plane; and so that light from the imaging path that is incident on a first part of said TDI detector forms an image exhibiting a first focus, while light from the imaging path that is incident on a different part of said TDI detector forms an image exhibiting a different focus;
- (b)—an optical element disposed between the object and the TDI detector and oriented so that light traveling from the object is directed along the imaging path to form said at least one image of the object on the plane of the TDI detector, in response thereto, said TDI detector producing one of:
- (i) an output signal corresponding to an image of the object relative to the inclined focal plane, said output signal being a composite of the light from the object at differing focal positions within the object, taken along the inclined focal plane, and being indicative of at least one characteristic of the object at the differing focal positions; and
- (ii) a plurality of output signals, each output signal corresponding to an image of the object formed on the plane of the TDI detector relative to a different focal position along

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the inclined focal plane, said plurality of output signals being indicative of at least one characteristic

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44. (Previously Cancelled)

Please add new Claim 47 as follows:

45. (Previously Cancelled)

46. (Previously Cancelled)

- --47. (New) An imaging system configured to produce at least one image of an object while there is relative movement between the object and the imaging system, comprising:
- (a) a collection lens disposed so that light traveling from the object passes through the collection lens and travels along a collection path, said collection lens substantially collimating light from the object;
- (b) a focusing lens disposed in the collection path to receive light that has passed through the collection lens, producing focused light that is directed along an image path; and
- (c) a light sensitive detector disposed to receive the focused light directed along the image path, said detector being disposed at an angle relative to focusing lens, such that light from the image path that is incident on a first part of said detector exhibits a first focus, while light from the image path that is incident on a different part of said detector exhibits a different focus.--